

In the Claims:

Claims 1-11 (Canceled)

12. (Currently amended) Magnetic field sensor comprising a Hall element that has ~~four contacts, said four contacts being~~ two inner and two outer contacts arranged along a straight line, ~~a first of said two outer contacts and a first of said two inner contacts being configured for supply and discharge of a current flowing through the Hall element and a second of said two outer contacts and a second of said two inner contacts being configured for tapping a Hall voltage,~~ wherein the two inner contacts are the same width and wherein the two outer contacts are the same width, wherein ~~thesaid four~~ contacts are arranged on a surface of a well of a first conductivity type that is embedded in a substrate of a second conductivity type, and wherein the two outer contacts are connected by an ~~additional~~ resistor.

13. (Currently amended) Magnetic field sensor according to claim 12, wherein ~~thesaid additional~~ resistor is formed by an ~~additional~~ well of the first conductivity type ~~embedded in said substrate.~~

14. (Currently amended) Magnetic field sensor according to claim 12, wherein ~~the resistor is formed in the well of thesaid~~ Hall element ~~and further~~ has a ~~fifth~~ contact arranged next to one of the two outer contacts of the Hall element on a side facing an adjacent edge of the well ~~so that said additional resistor is formed in the well of the Hall element between said fifth contact and the adjacent outer contact.~~

15. (Currently amended) Magnetic field sensor according to claim 12, wherein ~~the resistor is formed in the well of thesaid~~ Hall element ~~and has two contacts~~ ~~further has a fifth contact and a sixth contact~~ that are each arranged next to one of the outer contacts of the Hall element on a side facing an adjacent edge of the well, ~~the two contacts of the resistor being and that are~~ connected via a conductor path ~~so that said~~

~~additional resistor is formed in the well of the Hall element between said fifth contact and the respective adjacent outer contact and between said sixth contact and the respective adjacent outer contact.~~

16. (Previously presented) Magnetic field sensor according to claim 12, wherein at least one electrode electrically insulated from the well is arranged between two contacts.

17. (Previously presented) Magnetic field sensor according to claim 13, wherein at least one electrode electrically insulated from the well is arranged between two contacts.

18. (Previously presented) Magnetic field sensor according to claim 14, wherein at least one electrode electrically insulated from the well is arranged between two contacts.

19. (Previously Presented) Magnetic field sensor according to claim 15, wherein at least one electrode electrically insulated from the well is arranged between two contacts.

20. (Currently amended) Magnetic field sensor according to claim 12, wherein ~~the contacts are arranged on a surface of a well of a first conductivity type that is embedded in the substrate of the second conductivity type and wherein a~~ doping of the well in an area between the two inner contacts is different to a doping of the well in the areas between an inner contact and an outer contact.

21. (Currently amended) Magnetic field sensor according to claim 13, wherein ~~the contacts are arranged on a surface of a well of a first conductivity type that is embedded in the substrate of the second conductivity type and wherein~~ a doping of the well in an area between the two inner contacts is different to a doping of the well in the areas between an inner contact and an outer contact.

22. (Currently amended) Magnetic field sensor according to claim 14, wherein ~~the contacts are arranged on a surface of a well of a first conductivity type that is embedded in the substrate of the second conductivity type and wherein~~ a doping of the well in an area between the two inner contacts is different to a doping of the well in the areas between an inner contact and an outer contact.

23. (Currently amended) Magnetic field sensor according to claim 15, wherein ~~the contacts are arranged on a surface of a well of a first conductivity type that is embedded in the substrate of the second conductivity type and wherein~~ a doping of the well in an area between the two inner contacts is different to a doping of the well in the areas between an inner contact and an outer contact.

24. (Currently amended) Magnetic field sensor comprising a Hall element that has four contacts, said four contacts being two inner and two outer contacts arranged along a straight line, a first of said two outer contacts and a first of said two inner contacts being configured for supply and discharge of a current flowing through the Hall element and a second of said two outer contacts and a second of said two inner contacts being configured for tapping a Hall voltage, wherein the two inner contacts are the same width and wherein the two outer contacts are the same width, wherein ~~the said four~~ contacts are arranged on a surface of a well of a first conductivity type that is embedded in a substrate of a second conductivity type, and

wherein at least one electrode electrically insulated from the well is arranged between two contacts.

25. (Currently amended) Magnetic field sensor comprising a Hall element that ~~has four contacts, said four contacts being~~ two inner and two outer contacts arranged along a straight line, ~~a first of said two outer contacts and a first of said two inner contacts being configured for supply and discharge of a current flowing through the Hall element and a second of said two outer contacts and a second of said two inner contacts being configured for tapping a Hall voltage,~~ wherein the two inner contacts are the same width and wherein the two outer contacts are the same width, wherein ~~the said four~~ contacts are arranged on a surface of a well of a first conductivity type that is embedded in a substrate of a second conductivity type, and wherein a doping of the well in an area between the two inner contacts is different to a doping of the well in the areas between an inner contact and an outer contact.

26. (Currently amended) Magnetic field sensor comprising a first Hall element and a second Hall element that each have two inner and two outer contacts ~~arranged along a straight line, wherein the two inner contacts are the same width and wherein the two outer contacts are the same width, wherein the contacts of the first Hall element are arranged on a surface of a first well of a first conductivity type that is embedded in a substrate of a second conductivity type, wherein the two outer contacts of the first Hall element are connected via a first resistor, wherein the contacts of the second Hall element are arranged on a surface of a second well of the first conductivity type that is embedded in the substrate, wherein the two outer contacts of the second Hall element are connected via a second resistor, wherein the straight lines of both Hall elements run in parallel and wherein the contacts of the two Hall elements are wired via conductor paths in such a way that the Hall voltages of the two Hall elements~~

a first Hall element having four contacts, said four contacts being two inner and two outer contacts arranged along a first straight line, a first of said two outer contacts and a first of said two inner contacts being configured for supply and discharge of a current flowing through the first Hall element and a second of said two outer contacts and a second of said two inner contacts being configured for tapping a first Hall voltage, wherein the two inner contacts are the same width and wherein the two outer contacts are the same width, wherein said four contacts are arranged on a surface of a first well of a first conductivity type that is embedded in a substrate of a second conductivity type, and wherein the two outer contacts of the first Hall element are connected via a first additional resistor,

a second Hall element having four contacts, said four contacts being two inner and two outer contacts arranged along a second straight line, a first of said two outer contacts and a first of said two inner contacts being configured for supply and discharge of a current flowing through the second Hall element and a second of said two outer contacts and a second of said two inner contacts being configured for tapping a second Hall voltage, wherein the two inner contacts are the same width and wherein the two outer contacts are the same width, wherein said four contacts are arranged on a surface of a second well of the first conductivity type that is embedded in the substrate, and wherein the two outer contacts of the second Hall element are connected via a second additional resistor,

wherein the first and second straight line run in parallel and wherein the contacts of the first and second Hall element are wired via conductor paths in such a way that the first Hall voltage of the first Hall element and the second Hall voltage of the second Hall element are equidirectional.